AMENDMENTS TO THE CLAIMS

Claim 1 (Original) Method of manufacture of a piston for an internal combustion engine, the said piston being formed from a metal part cast in one piece, wherein heating of a billet is carried out so as to bring it to an intermediate temperature between its solidus temperature and its liquidus temperature, and that shaping thereof by thixoforging is carried out.

Claims 2-16 (Canceled)

Claim 17 (New) The method of Claim 1, wherein the piston is produced from carbon steel.

Claim 18 (New) The method of Claim 17, wherein the piston has a composition, in percentages by weight, of:

- $0.35\% \le C \le 1.2\%$
- $0.10\% \le Mn \le 2.0\%$
- $0.10\% \le Si \le 1.0\%$
- traces \leq Cr \leq 4.5%
- traces \leq Mo \leq 2.0%
- traces \leq Ni \leq 4.5%
- traces $\leq V \leq 0.5\%$
- traces $\leq Cu \leq 3.5\%$
- traces \leq Al \leq 0.060%
- traces \leq Ca \leq 0.050%
- traces $\leq B \leq 100 \text{ ppm}$
- traces \leq Ti \leq 0.050%
- traces \leq Nb \leq 0.050%

the other elements being iron and conventional impurities resulting from the manufacture.

Claim 19 (New) The method of Claim 18, wherein the piston includes up to 0.180% of S and one at least of the elements chosen from amongst up to 0.080% of Bi, up to 0.020% of Te, up to 0.040% of Se, up to 0.070% of Pb.

Claim 20 (New) The method of Claim 1, wherein the piston is produced from hot-tooling steel.

Claim 21 (New) The method of Claim 1, wherein the piston is produced from high-speed steel.

Claim 22 (New) The method of Claim 1, wherein the piston is produced from stainless steel.

Claim 23 (New) The method of Claim 1, wherein the piston is produced from cast iron.

Claim 24 (New) The method of Claim 1, wherein the piston is produced from an alloy based on Fe-Ni.

Claim 25 (New) The method of Claim 1, wherein the piston is produced from an alloy based

Claim 26 (New) A method of making a piston for an internal combustion engine comprising: heating metal material so as to bring the material to an intermediate temperature between its solidus temperature and its liquidus temperature; and

shaping the metal material by thixoforging the metal material at the intermediate temperature so as to form the piston.

Claim 27 (New) The method of claim 26, wherein the metal material is steel.

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